

HIGH FREQUENCY MAGNETICS

T1/E1 Dual Surface Mount Transformer

TM00153

SubZero Series

- Designed to provide high inductance at low temperatures
- Provides excellent low-frequency return loss over the entire industrial temperature range
- Minimum interwinding breakdown voltage of 1500 Vrms
- Operating Temperature Range: -40° C to +85° C
- Meets IEC 695, 2-2 flammability requirements
- PWB Process Capability: Standard Printed Wiring Board assembly techniques, total-immersion cleaning
- Reliability testing: Shock, vibration, temperature cycling, temperature - humidity - bias

ELECTRICAL SPECIFICATIONS at 25° C

Part Number	Turns Ratio ±2%		Primary Inductance ¹ mH Min		DCR Ω max				Leakage Inductance ¹ µH max		Interwinding Capacitance pF max	
	Pri : Sec				Pri		Sec					
	Coil A	Coil B	Coil A	Coil B	Coil A	Coil B	Coil A	Coil B	Coil A	Coil B	Coil A	Coil B
S553-6500-96	1 : 1.15 CT	1 CT : 2 CT	1.5	1.5	0.8	0.8	1.0	1.5	0.6	0.6	30	30

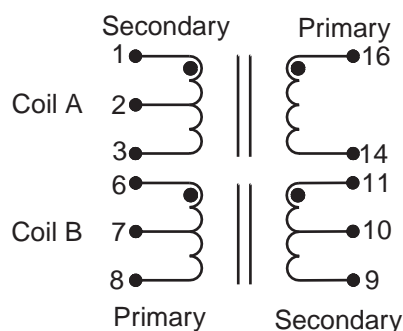
1. measured at 100 kHz, 0.02 Vrms

Part Number	Return Loss at 102 kHz dB min ¹			
	Coil A		Coil B	
	25 °C	-40 to 85 °C	25 °C	-40 to 85 °C
S553-6500-96	27	22	25	19

1. When operated with 100Ω line and matched load impedance

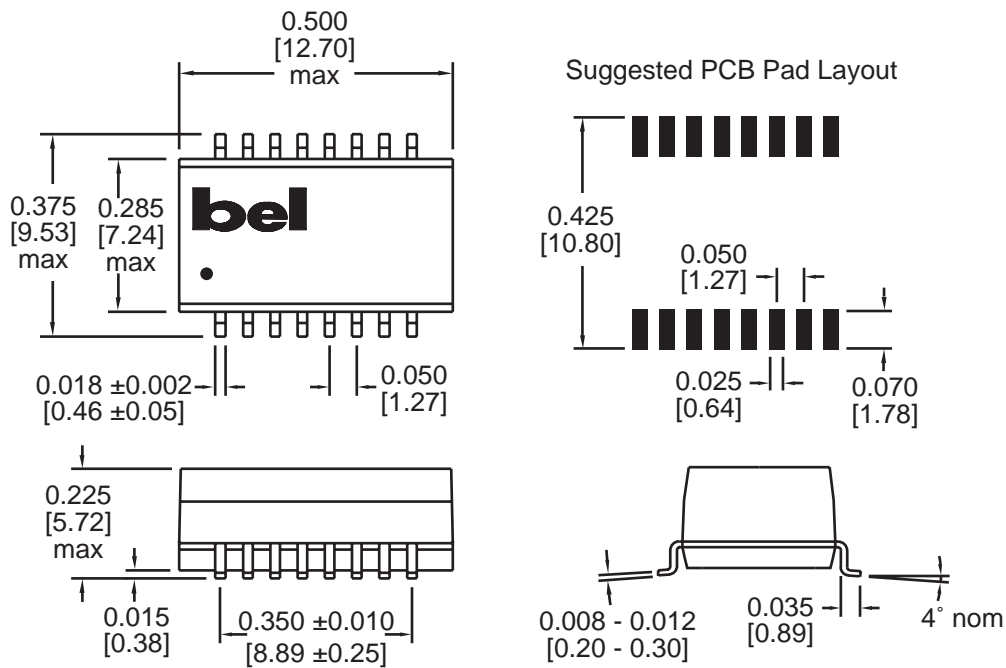
SCHEMATIC

S553-6500-96



MECHANICAL

S553-6500-96



Dimensions are in inches [millimeters].
Standard dimension tolerance is ± 0.010 [0.25] unless otherwise noted.

Tape and Reel Packaging

24 mm wide by 12 mm pitch; 13 inch OD, 4 inch ID
750 transformers per reel, maximum
Meets ANSI/EIA 481-2 Carrier Tape Standards - JEDEC SO Package

CORPORATE

Bel Fuse Inc.
198 Van Vorst Street
Jersey City, NJ 07302
Tel 201-432-0463
Fax 201-432-9542
www.belfuse.com

FAR EAST

Bel Fuse Ltd.
8F / 8 Luk Hop Street
San Po Kong
Kowloon, Hong Kong
Tel 852-2328-5515
Fax 852-2352-3706
www.belfuse.com

EUROPE

Bel Fuse Europe Ltd.
Preston Technology Management Centre
Marsh Lane, Suite G7, Preston
Lancashire, PR1 8UD, U.K.
Tel 44-1772-556601
Fax 44-1772-888366
www.belfuse.com